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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/001,756	10/24/2001	Patricia A. Beck	10003472-1	4353	
7590 02/23/2005			EXAMINER		
HEWLETT-PACKARD COMPANY .			CHU, JOHN S Y		
Intellectual Property Administration P.O. Box 272400			ART UNIT	PAPER NUMBER	
Fort Collins, CO 80527-2400			1752		

DATE MAILED: 02/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			/ /	
	Application No.	Applicant(s)		
	10/001,756	BECK ET AL.		
Office Action Summary	Examiner	Art Unit		
:	John S. Chu	1752		
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the	correspondence a	address	
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a relif NO period for reply is specified above, the maximum statutory perions are period for reply within the set or extended period for reply will, by status Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	1. 1.136(a). In no event, however, may a reply be epply within the statutory minimum of thirty (30) do will apply and will expire SIX (6) MONTHS froute, cause the application to become ABANDON	timely filed ays will be considered tin m the mailing date of this IED (35 U.S.C. § 133).	nely. s communication.	
Status				
1) Responsive to communication(s) filed on 12	November 2004.			
2a) This action is FINAL . 2b) The	nis action is non-final.			
3) Since this application is in condition for allow closed in accordance with the practice under	•		he merits is	
Disposition of Claims				
 4) ☐ Claim(s) 1,6 and 8-45 is/are pending in the at 4a) Of the above claim(s) 16-45 is/are withdress. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,6,8 and 9 is/are rejected. 7) ☐ Claim(s) 10-15 is/are objected to. 8) ☐ Claim(s) are subject to restriction and 	awn from consideration.			
Application Papers				
9) The specification is objected to by the Exami	ner.			
10)☐ The drawing(s) filed on is/are: a)☐ a	ccepted or b) objected to by the	Examiner.		
Applicant may not request that any objection to the	ne drawing(s) be held in abeyance. S	ee 37 CFR 1.85(a)		
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the				
Priority under 35 U.S.C. § 119		•		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	ents have been received. ents have been received in Applicationity documents have been received in Rec	ation No ved in this Nation	al Stage	
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summa	n/ /PTO 442)	7.	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail	Date		
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date	5) Notice of Information Other:	Patent Application (P	TO-152)	

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DETAILED ACTION

This Office action is in response to the amendment filed November 12, 2004.

- 1. The rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention is **withdrawn** in view of the amendment by applicant in the response of November 12, 2004.
- 2. The rejection under 35 U.S.C. 102(e) as being anticipated by REED et al '200 is withdrawn in view of the amendment further defining the bistable molecule.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 8 and 9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 8 and 9 are dependent on cancelled claim 7. Correction is necessary.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1, 6, 8 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by VAN ALLAN et al or FUJIMAKI et al.

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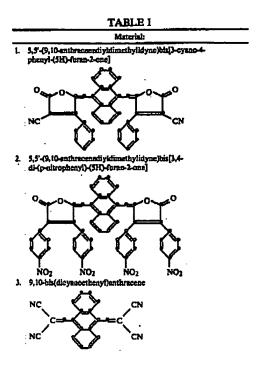
The claimed invention has been amended to reflect the following:

1. (currently amended) A bistable molecule for a multiple electrode device, <u>said multiple electrode</u> device comprising at least one pair of electrodes that form at least one junction and at least one said bistable molecule connecting said pair of electrodes in said junction, said junction having a functional dimension in nanometers or micrometers, wherein said bistable molecule including at least one photosensitive functional group, wherein said bistable molecule comprises a main chain and at least one pendant group and wherein at least one photosensitive functional group is attached either to said main chain or to said pendant group.

VAN ALLAN et al (4,282,354) discloses an electrophoretic migration imaging process wherein compounds used in the process are photosensitive and responds to an electric field. Here the charge-bearing particles are subjected to the influence of an electric field when exposed to activating radiation. As a result of the process, the particles migrate to electrophoretically within a medium to the surface of one of the electrodes, see the discussion in the Background of the Invention in the patent found at column 1, lines 34-64. The specific compounds are include in column 4, line 40 – column 6, line 57. A few compounds are exemplified here below from VAN ALLAN et al:

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These compounds seen in VAN ALLAN et al anticipate the recited scope for the claimed bistable molecule wherein these compounds possess a main chain and at least one pendant group. The reference clearly states that these compounds are photosensitive and show a bistable property by altering their charge upon exposure to light. Thus the prior art reference is seen to anticipate the broadly recited bistable molecule recited in claim 1.

FAY et al discloses photosensitive caged compounds having a photolabile group. These compounds appear to be bistable and have a photosensitive group which upon exposure to light the peptide is cleaved to give a deactivated compound that is irreversible to previous state, see sheet 7 of the drawings for the cleavage of the photosensitive group from the peptide. This disclosure is asserted to meet the claimed bistable molecule as recited. The intended use of the bistable molecule has not been given patentable weight based on the potential us of a bistable molecule in various applications as seen in the two references cited here.

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7. Claims 10-15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

None of the prior art references of record disclose the claimed species having the structures as recited in claims 11-15. Currently the generic claims 1-10 are written in broad form wherein none of the allowed species are recited, upon writing claims 11-15 in independent form those claims would be seen as allowable.

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. HESS et al is cited of interest for caged compounds having an alkoxy-nitro-phenyl photosensitive group.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. ZHANG et al 2002/0075557 A1, 2002/0176276A1, 2002/0114557 A1, 2004/0066677 A1, 2004/0122233 A1, 2004/0227605 A1 are each to the published application having a common inventor and to the same assignee. These references are not used in an obviousness-type double patenting rejection because the claimed molecular compound fails to recite a photosensitive functional group as claimed in the current application.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Chu whose telephone number is (571) 272-1329. The examiner can normally be reached on Monday - Friday from 9:30 am to 6:00 pm.

The fax phone number for the USPTO is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-1700.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PMR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jøhn S. Chu

Primary Examiner, Group 1700

J.Chu February 20, 2005